

Burkina Faso - Roads Baseline Survey

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Overview

Identification

COUNTRY

Burkina Faso

EVALUATION TITLE

Roads Baseline Survey

EVALUATION TYPE

Independent Impact Evaluation

ID NUMBER

DDI-MCC-BFA-IMPAQ-ROADS-V2

Version

VERSION DESCRIPTION

Anonymized dataset for public distribution

Overview

ABSTRACT

NOTE

!!!This survey data was not used for any independent evaluation reports!!!

Impaq worked with the data collection firms NSCE-MCG-AC3E [the Group] to conduct traffic, household, and business surveys as part of the Roads Project evaluation.

Specifically, a baseline survey of households, businesses, and traffic was conducted. The data collected was intended to serve either as baseline data for the impact evaluation and as baseline monitoring data for the compact in general.

The data collected included:

- travel time along the roads
- access to social services (e.g., schools and healthcare centers);
- access to markets for goods and services;
- the type, volume, and value of transported goods
- economic activity levels

The baseline survey was designed to support a "difference-in-difference" estimation, comparing the conditions before and after the project on the rehabilitated roads with conditions in similar zones along similar road segments that were not rehabilitated. In 2014, the decision was made to alter the evaluation methodology in favor of an HMD-4 based evaluation. Thus, follow up surveys for the "difference-in-difference" design will not be conducted.

EVALUATION METHODOLOGY

Difference-in-Difference

UNITS OF ANALYSIS

Individuals, Businesses, and Road Conditions (traffic survey)

KIND OF DATA

Sample survey data [ssd]

TOPICS

Topic	Vocabulary	URI
Transport	MCC Sector	

KEYWORDS

Roads, Transportation

Coverage

GEOGRAPHIC COVERAGE

The traffic survey covered all rehabilitated road segments as well as the identified comparison road segments. The household and business surveys were conducted within a 10km band along the given road segments (5km on either side of the road).

UNIVERSE

Households and businesses located along primary and rural roads

Producers and Sponsors

PRIMARY INVESTIGATOR(S)

Name	Affiliation
IMPAQ	

FUNDING

Name	Abbreviation	Role
Millennium Challenge Corporation	MCC	

Metadata Production

METADATA PRODUCED BY

Name	Abbreviation	Affiliation	Role
Millennium Challenge Corporation	MCC		Metadata Producer

DATE OF METADATA PRODUCTION

2015-09-25

DDI DOCUMENT VERSION

Version 2.0 (September 2015)

DDI DOCUMENT ID

DDI-MCC-BFA-IMPAQ-ROADS-V2

MCC Compact and Program

COMPACT OR THRESHOLD

Burkina Faso

PROGRAM

The specific objectives of the Road Development Project are: (i) Facilitating access to agricultural markets by improving the primary and rural road segments serving the Sourou Valley and the Comoé Basin; (ii) Reducing travel time between farms and markets, while optimizing vehicle operation costs; (iii) Ensuring the sustainability of the road network by strengthening maintenance capacities.

MCC SECTOR

Transport (Trans)

PROGRAM LOGIC

The expected results of the Road Development Project are the following: (i) Increased volume of freight and passenger traffic on rehabilitated roads; (ii) Reduced travel times; (iii) Increased accessibility to basic social services (health and education) by rural populations; (iv) Reduced vehicle operating costs; (v) Improved road maintenance management and funding capacities.

PROGRAM PARTICIPANTS

The rehabilitated road segments are intended to benefit all users of the roads.

Sampling

Study Population

Households and businesses located along primary and rural roads

Sampling Procedure

The household survey was conducted through a process of two-stage stratified random sampling. In the first stage, the localities were selected based on a systematic selection with probability proportional to household size. In the second stage, a constant number of households were selected with equal probability without replacement.

Weighting

To determine the household sample size for primary and rural roads, a weighting coefficient proportional to the total length of each substratum was used.

Questionnaires

Overview

- Traffic survey
- Household basic socioeconomic services survey
- Business survey including both farmers and enterprises in the informal and formal sectors in the areas of services, crafts, and business
- Survey of road maintenance actors

The survey will cover all of the rehabilitated roads (three (3) primary road segments to be paved and the rural roads selected in Comoé, Léraba, and Kénédougou Provinces). The household and business surveys occurred at a single point in time, whereas the traffic surveys were repeated in two rounds so as to capture variability over time.

Data Collection

Data Collection Dates

Start	End	Cycle
2012-04-01	2012-09-30	N/A

Questionnaires

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Data Collectors

Name	Abbreviation	Affiliation
North South Consultants Exchange	NSCE	
Mauritania Consulting Group	MCG	
	AC3E	

Supervision

The data collection consultants were responsible for hiring and then training the staff assigned to data collection. The staff hired needed to have at least a secondary school diploma for the interviewers and a university diploma for the supervisors. They also had to provide evidence of experience in conducting similar surveys and mastery of the local languages in the surveyed areas. All staff received at least three (3) days of training to familiarize them with the objectives of MCA-BF and the Road Development Project as well as the methodology to be followed, the responsibilities of each of the actors, and the behavior to adopt towards the local authorities, populations, and individuals to be surveyed and interviewed. Special attention was paid to understanding the questionnaires the staff training manuals.

Data Processing

Data Editing

After exporting the data from Access to text format, the data processing work was done entirely in SPSS. This second phase of data cleaning was very important for verifying the quality and consistency of the data.

Other Processing

Microsoft Access and SPSS were used.

Data Appraisal

No content available